Amendments to the Claims:

- (Currently Amended) A process for the preparation of water-absorbent, foamtype polymer structures, wherein an aqueous composition (A) comprising
 - (A1) water,
 - (A2) one or more polymers based at least on
- (α1) from about 55 to about 100 wt.% of a polymerized, monoethylenically unsaturated, acid-group-containing monomer or its salt thereof.
- (α2) from 0 to about 45 wt.% of a polymerized, monoethylenically unsaturated monomer that is copolymerizable with (α1).

wherein the sum of the amounts by weight of $(\alpha 1)$ and $(\alpha 2)$ is 100 wt.% and wherein at least about 31.5 wt.% of the monomers, based on the total weight of the monomers $(\alpha 1)$ and $(\alpha 2)$, are acrylic acid or salts of acrylic acid,

- (A3) one or more crosslinkers,
- (A4) one or more blowing agents,
- (A5) one or more surfactants,
- (A6) and optionally further auxiliary substances,

is foamed by mechanical action or by the dispersion of an inert gas in the form of fine gas bubbles, and the foamed aqueous composition is then heated at a temperature in a range of from about 50 to about 300°C, so that the polymer (A2) crosslinks at least partially and the content of water (A1) is adjusted to not more than about 15 wt.%, based on the total weight of the foam-type polymer structure that forms.

 (Previously Presented) The process according to claim 1, wherein the foamed aqueous composition polymer has a number-average molecular weight of at least about 10,000 g/mol.

- (Previously Presented) The process according to claim 1, wherein the foamed composition has a foam liter weight of from about 10 to about 1000 g/l.
- (Previously Presented) The process according to claim 1, wherein the surface of the absorbent, foam-type polymer structure is smoothed in a further process step.
- (Previously Presented) A water-absorbent, foam-type polymer structure obtainable by a process according to claim 1.
- (Previously Presented) A water-absorbent, foam-type polymer structure according to claim 5, wherein the polymer structure has at least one of the following properties:
- (β1) an AUL (absorbency under load) of 0.9% NaCl solution under a load of 0.3 psi of at least about 10 g/g;
 - (β2) a rate of absorption of more than about 1 g/g/sec;
 - (β3) a maximum absorption capacity in a range of from about 20 to about 300 g/g;
- ($\beta4$) a CRC (centrifugation retention capacity) in a range of from about 7.5 to about 100 g/g;
 - (β5) a mean pore size in a range of from about 0.01 to about 2 mm;
 - (β6) a mean pore density in a range of from about 60 to about 1200 g/m².

- (Currently Amended) A water-absorbent, foam-type polymer structure eontaining comprising:
- (B1) from about 20 to about 99.99 wt.%, based on the total weight of the polymer structure, of one or more crosslinked polymers based at least on
- (γ1) from about 50 to about 99.9 wt.% of a polymerized monoethylenically unsaturated, acid-group-containing monomer or its salt,
- $(\gamma 2)$ from 0 to about 45 wt.% of a polymerized monoethylenically unsaturated monomer that is copolymerizable with $(\gamma 1)$, and
 - (γ3) from about 0.001 to about 5 wt.% of one or more crosslinkers,

wherein the sum of the amounts by weight of $(\gamma 1)$ to $(\gamma 3)$ is 100 wt.% and at least about 31.5 wt.% of the monomers, based on the total weight of the monomers $(\gamma 1)$ and $(\gamma 2)$, are acrylic acid or a salt thereof.

- (B2) from about 0.01 to about 30 wt.% of one or more additives, based on the total weight of the polymer structure, and
- (B3) from 0 to about 15 wt.% of water, based on the total weight of the polymer structure,

wherein the sum of the amounts by weight of (B1) to (B3) is 100 wt.% and wherein the water-absorbent, foam-type polymer structure has the following properties (β 1) and (β 2):

- $(\beta 1) \quad \text{an AUL (Absorbency under Load) of 0.9\% NaCl solution at a load of 0.3 psi of at} \\$ least about 10 g/g;
 - (β2) an absorption speed of more than about 2 g/g/sec.

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9.

 (Previously Presented) A composite comprising a water-absorbent, foam-type polymer structure according to claim 5 and a substrate.

elaim 8, wherein the foamed aqueous composition as defined in claim 1 water-absorbent, foam-

(Currently Amended) A process for the production of a composite according to

type polymer-structure is brought into contact with at least a portion of the surface of a substrate

and the substrate brought into contact with the foamed aqueous composition is then heated at a

temperature in a range of from about 50 to about 300°C so that the polymer (A2) crosslinks at least partially, the content of water (A1) is adjusted to not more than about 15 wt.%, based on the

total weight of the foam-type polymer structure that forms, and the resulting foam-type polymer

structure is immobilized on at least a portion of the surface of the substrate.

10. (Previously Presented) A process according to claim 9, wherein the substrate is

selected from the group consisting of polymeric film, metal, nonwoven, fluff, tissue, woven

fabric, natural fiber, synthetic fiber and foam.

11. (Previously Presented) A process according to claim 9, wherein templates are

used during application of the foamed aqueous composition to the substrate.

12. (Currently Amended) A process for the production of a composite according to

elaim 8, wherein at least a portion of the surface of the water-absorbent, foam-type polymer

structure obtained by the process of claim 1 is brought into contact with at least a portion of the

surface of a substrate, and the polymer structure is then immobilized on at least a portion of the

surface of the substrate

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- 13. (Previously Presented) A process according to claim 12, wherein the substrate is a thermoplastic sheet-form structure.
 - 14. (Previously Presented) A composite obtainable by a process according to claim 9.
 - 15. (Cancelled)
- (Previously Presented) A chemical product comprising a water-absorbent, foamtype polymer structure according to claim 5.
 - 17. (Previously Presented) A chemical product comprising a composite of claim 8.
- (Previously Presented) A composite obtainable by a process according to claim 12.
- 19. (Previously Presented) The process according to claim 1, wherein the one or more blowing agents is selected from inorganic salts or organic compounds that are capable of decarboxylation.